



**CONFIDENTIAL**

CONFIDENTIAL

50X1-HUM

excellently correlated recordings of fluctuations in radio waves from a point emitter in Cygnus giving waves 3.7 and 6.7 meters (see Smith, Nature, 163, 422, 1950). We can take  $\Delta t < 5$  sec; setting  $v_1 = 5.10 \times 10^8$ /sec and  $v_2 = 2.82 \times 10^8$ /sec we obtain:  $\int_{S_1}^{S_2} N(S) dS < 1.1 \times 10^{19}/cm^2$ . Assuming  $N(S) = 10/\text{cu cm}$  (see Strömberg, Astroph J, 108, 242, 1948), we see that  $S_1 < 10^{20}$  cm (35 parsec).

- E N D -

- 2 -

CONFIDENTIAL

**CONFIDENTIAL**